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## NOTICE OF ALLOWANCE AND FEE(S) DUE

20792

7590

08/22/2008

MYERS BIGEL SIBLEY & SAJOVEC PO BOX 37428 RALEIGH, NC 27627 EXAMINER

RIZK, SAMIR WADIE

ART UNIT PAPER NUMBER

2112

DATE MAILED: 08/22/2008

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/722.918	11/26/2003	Jonathan Jedwab	5649-2222	1180	

TITLE OF INVENTION: MAGNETIC MEMORY WHICH COMPARES COMPRESSED FAULT MAPS

L	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1440	\$300	\$0	\$1740	11/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notificated appropriate.	correspondence includir ted below or directed oth ations.	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification a) specifying a new co	of ma orresp	intenance fees wondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspo arate "FE	ondence address as E ADDRESS" for
CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailing Fee(s) Transmittal. This certificate cannot be used for any other accompapers. Each additional paper, such as an assignment or formal drawin have its own certificate of mailing or transmission.							
MYERS BIGE PO BOX 37428 RALEIGH, NC			States	by certify that the Postal Service was Postal Service was provided to the Mail	is Fee( ith suf Stop	e of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	g deposite st class m above, o	nail in an envelope or being facsimile	
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONF	IRMATION NO.
10/722,918 TITLE OF INVENTION	11/26/2003 N: MAGNETIC MEMOR	Y WHICH COMPARES	Jonathan Jedwab COMPRESSED FAU		APS		5649-2222		1180
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE :	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1440	\$300		\$0		\$1740		11/24/2008
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	;	$\neg$				
RIZK, SAM	MIR WADIE	2112	714-763000						
CFR 1.363).  Change of corresp Address form PTO/S  "Fee Address" inc PTO/SB/47; Rev 03-t Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA	registered attorney or agent) and the names of up to							
(A) NAME OF ASSI	th in 37 CFR 3.11. Comp IGNEE riate assignee category or		(B) RESIDENCE: (C	CITY a	and STATE OR C		,	oup entity	y 🗖 Government
4a. The following fee(s)  Issue Fee  Publication Fee (1)  Advance Order	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
a. Applicant claim  NOTE: The Issue Fee an	atus (from status indicated ns SMALL ENTITY statu nd Publication Fee (if requ	us. See 37 CFR 1.27.	d from anyone other th	_	-		ΠΤΥ status. See 37 C		
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.		,		,, 01 4		- r ···· · · · ·
Authorized Signature	?				Date				
Typed or printed name				Registration N	o				
an application. Confiden	nation is required by 37 C ntiality is governed by 35 d application form to the tions for reducing this bur Virginia 22313-1450. DC 313-1450.	U.S.C. 122 and 37 CFR	1.14. This collection i	s estir	nated to take 12 r	ninutes	to complete, including on the amount of ti	ng gatheri	ing, preparing, and

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/722,918	11/26/2003	Jonathan Jedwab	5649-2222	1180		
20792 7	590 08/22/2008		EXAMINER			
MYERS BIGEL	SIBLEY & SAJOVE	EC	RIZK, SAMIR WADIE			
PO BOX 37428			ART UNIT	PAPER NUMBER		
RALEIGH, NC 27	7627		2112			
			DATE MAILED: 08/22/2008			

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 555 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 555 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/722,918	JEDWAB ET AL	JEDWAB ET AL.				
Notice of Allowability	Examiner	Art Unit					
	Sam Rizk	2112					
	Salli Rizk	2112					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr <b>GHTS</b> . This application is	in this application. If not includ nunication will be mailed in due	ed course. <b>THIS</b>				
1. This communication is responsive to <u>5/13/2008</u> .							
2. The allowed claim(s) is/are <u>1-35</u> .							
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		) or (f).					
2. Certified copies of the priority documents have		tion No					
3.  Copies of the certified copies of the priority doc	cuments have been receiv	ed in this national stage applica	ation from the				
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗆 Notice of	Informal Patent Application					
<ol> <li>Induce of References Cited (PTO-692)</li> <li>Induce of References Cited (PTO-</li></ol>	<u> </u>	Summary (PTO-413),					
•	Paper No	o./Mail Date					
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ∐ Examiner	's Amendment/Comment					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		's Statement of Reasons for Allo	owance				
	9. ☐ Other	<del>,</del>					
/Mujtaba K Chaudry/ Primary Examiner, Art Unit 2112							

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#### **DETAILED ACTION**

- Response to the applicant's amendment dated 5/13/2008
- Amended claims 1-35 are pending
- Amended claims 1-35 have been allowed

### Claim Objections

1. In view of the applicant's amended claims 25-26, all objections to the claims 25-26 are withdrawn.

### Response to Arguments

Applicant's arguments see pages 13-14 and amendments of the independent claims 1, 12, 19, 25, 27 and 34 filed on 5/13/2008, with respect to claims 1, 12, 19, 25, 27 and 34 have been fully considered and are persuasive. The rejections of claims 1, 12, 19, 25, 27 and 34 under section 35 USC 103(a) has been withdrawn.

#### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

3. The prior Art of record and, in particular Brown et al. US patent no. 6360340 (Hereinafter Brown) and further in view of Hughes et al. US patent no. 6,373,758 (Hereinafter Hughes) teaches semiconductor memories test with a lossless data compressor to eliminate faulty memory cells.

However, the prior art do not teach, suggest, or otherwise render obvious the cited limitations in the independent claims 1, 12, 19,25 and 34 that comprise magnetic memory cells configured to store data, a control system configured to

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Art Unit: 2112

at least twice obtain parametric values from the magnetic memory cells and generate a corresponding compressed fault map using the parametric values, wherein at least one of the compressed fault maps is compared to a previous one of the compressed fault maps and an indication is provided if there are differences, said control system further configured to preserve data in said at least two magnetic memory cells by migrating the data from said at least two magnetic memory cells to another memory medium in response to the indication.

- 4. Claims (2-11) depend from claims 1.
- 5. Claims (13-18) depend from claims 12.
- 6. Claims (20-24) depend from claims 19.
- 7. Claim 26 depend from claims 25.
- 8. Claims (28-33) depend from claims 27.
- 9. Claim 35 depend from claims 34.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Rizk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on (571) 272-6962. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Art Unit: 2112

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free)

/Sam Rizk/

Examiner, Art Unit 2112

/Mujtaba K Chaudry/

Primary Examiner, Art Unit 2112